

What is claimed is:

1        1(currently amended).     A fitting for an end of a length of tubing  
2        having corrugations ranging between a maximum diameter and a minimum  
3        diameter, the fitting comprising:  
4                a retainer having at least one ridge sized to extend inwardly to a radius  
5        between said maximum and minimum diameters for gripping the tubing axially  
6        above an endmost corrugation of the tubing, wherein the retainer has a flat  
7        axially facing surface disposed above said endmost corrugation;  
8                a body having a hollow cylindrical part sized to admit the retainer, the  
9        body having at least one threaded surface;  
10               a nut having a thread complementary with the threaded surface of the  
11       body, the nut having a cap part configured to engage the retainer for urging the  
12       retainer axially into the body with threaded advance of the nut relative to the  
13       body;  
14               wherein the body has an inwardly tapered conical surface with a circular  
15       outer radius surrounded by an annular groove, thereby defining a sharp edge  
16       opposed to the axially facing surface of the retainer, and wherein the sharp  
17       edge is disposed between said maximum and minimum diameters and a  
18       circular nip is formed between the sharp edge and the axially facing  
19       surface of the endmost corrugation, and tightened by ~~whereby~~ advance  
20       of the nut on the body ~~turns the endmost corrugation over said edge.~~

Claim 2 is now canceled, without prejudice.

1        3(currently amended).     A fitting for an end of a length of tubing  
2        having corrugations ranging between a maximum diameter and a  
3        minimum diameter, the fitting comprising: ~~The fitting of claim 2, wherein~~  
4               a retainer having at least one ridge sized to extend inwardly to a  
5        radius between said maximum and minimum diameters for gripping the  
6        tubing axially above an endmost corrugation of the tubing, wherein the

7        retainer has a flat axially facing surface disposed above said endmost  
8        corrugation;  
9                a body having a hollow cylindrical part sized to admit the retainer,  
10        the body having at least one threaded surface;  
11                a nut having a thread complementary with the threaded surface of  
12        the body, the nut having a cap part configured to engage the retainer for  
13        urging the retainer axially into the body with threaded advance of the nut  
14        relative to the body;  
15                wherein the body has an inwardly tapered conical surface with a  
16        circular outer radius surrounded by an annular groove, thereby defining a  
17        sharp edge opposed to the axially facing surface of the retainer, wherein  
18        the sharp edge is disposed between said maximum and minimum  
19        diameters and a circular nip is formed between the sharp edge and the  
20        axially facing surface of the endmost corrugation, and tightened by  
21        advance of the nut on the body;  
22                a compressible gasket disposed in the annular groove;  
23                wherein the edge is configured to form the endmost corrugation into a  
24        rolled bead adjacent to between the maximum diameter and the nip between  
25        the sharp edge and the axially facing surface of the retainer, and wherein  
26        the bead compresses the gasket downwardly in the annular groove  
27        surrounding the sharp edge.

1                4(currently amended).      The fitting of claim 3 2, wherein the gasket  
2        comprises a ~~high temperature~~ gasket material capable of withstanding high  
3        temperatures.

1                5(original claim).      The fitting of claim 1, wherein the fitting body has a  
2        second threaded surface bearing a pipe thread.

1                   6(original claim).   The fitting of claim 1, wherein the ridge of the  
2                   retainer is circumferentially split to enable engagement over the maximum  
3                   diameter.

1                   7(original claim).   The fitting of claim 6, wherein the retainer comprises  
2                   a plurality of ridges that are complementary with the corrugations of the tubing,  
3                   and a flanged part that is positioned for engagement with a flanged part of the  
4                   nut.

1                   8(currently amended).   The fitting of claim 1, wherein the conical  
2                   surface of the fitting and the annular groove form a triangular cross section with  
3                   a radially sloped side and a longitudinal side forming a right triangle and a  
4                   corner of the triangle forms said sharp edge.

1                   9(original claim).   The fitting of claim 1, wherein the edge is placed to  
2                   fall between 40% and 60% of a radial distance between the maximum and  
3                   minimum diameters.

1                   10(original claim).   The fitting of claim 1, wherein the edge is placed to  
2                   fall substantially at a midpoint between the maximum and minimum diameters.

Claims 11-17 are now canceled.

1                   18(currently amended).   A method of terminating a length of  
2                   corrugated tubing comprising the steps of:

3                   cutting the tubing at a longitudinal point spaced between maximum  
4                   diameter points of adjacent corrugations, thereby forming an endmost  
5                   corrugation;

6                   engaging the tubing in a retainer having a ridge placed axially behind the  
7                   at least an endmost corrugation of the tubing, the ridge having a surface  
8                   facing axially toward a cut end of the tubing;

9                   forcing the endmost corrugation axially against an inwardly conical  
10                  surface having an edge surrounded by an annular groove, the edge being  
11                  disposed between the maximum and minimum diameters and oriented to  
12                  oppose the axially facing surface of the ridge of the retainer behind the  
13                  endmost corrugation so as to form a sharp circular nip, thereby folding the  
14                  endmost corrugation over the edge to form a bead around the nip and to  
15                  provide a circular sealing junction between the retainer and the edge.

Claim 19 is now cancelled.

1                  20(currently amended).    The method of claim 18 19, further comprising  
2                  forming a supplemental seal with the bead by placing a gasket in the annular  
3                  groove, the gasket being compressed by the bead.